

# THE FARMS AND THE RANGES

Edited by  
Francis A. Chisholm, County Agricultural Agent

## How to Feed Straw.

There are a few principles involved in feeding straw that must be observed if the best results are to be obtained. Instead of turning the animals loose to the stack, the straw should be fed in racks. Putting the straw thru a feed chopper adds materially

to value as a food. All straw, being low in moisture content, tends to induce constipation. The addition of alfalfa hay or roots to the ration will correct this tendency. Straw should never be fed as the sole ration. A small amount of grain silage, roots, pulp or molasses in the combination will aid very materially, especially when fed to immature animals. Only bright straw, free from mold and excessive dust, should ever be fed. This is especially true where breeding animals are concerned. A little attention to stacking at threshing time will prevent much loss from weathering.

Of the grain straws, oats comes first, barley second, wheat third, rye fourth. It is doubtful if the latter should be used for anything but bedding. Alsike clover is the best of the clover straws, followed by red clover, with white clover straw last. Of the other legume straws, pea straw takes first rank, followed by alfalfa, and then bean straw.

Straw and hay may be fed together or separately in equal proportions, particularly for dry stock. By adding 5 per cent of sugar beet molasses to chopped straw a good feed for carrying over stock is secured. Chopped straw fed in combination with chopped roots, or silage, also makes a good feed for this purpose.

Clover and other legume straws may be used with profit in feeding sheep, particularly if fed with silage or roots, and in this way a large amount of hay may be saved. Great care must be used, however, in feeding alsike straw to horses, since there are cases of fatal results because of alsike poisoning. Some alfalfa hay should be fed in combination with clover straws to really get the best results.

Properly cured pea straw ranks highest of all straws, approaching good alfalfa hay in value. However, it does tend to produce constipation especially in horses, and for this reason should not be fed to horses as a sole roughage. By adding a small amount of alfalfa hay, this evil may be corrected. With other classes of livestock, pea straw may be used as the sole roughage; silage or roots should be added, however, wherever possible to get the best results. Alfalfa straw is very similar to clover straws and should be fed similarly. Bean straw is used very generally and considered good feed, but it is less palatable than the other straws. Sheep, however, will do well on bean straw for the entire ration.

## Special Features for Farmers' Week.

There are some very attractive features arranged for this year's Farmers' and Housekeepers' Week at the State University, January 19 to 24. Among these attractions are:

Full week's program for women.

Joint meeting with Arizona Good Roads association, Jan. 19.

Joint meeting with Arizona State Farm Bureau, Jan. 23.

Joint meeting with Southwestern Cattle Growers association, Jan. 22.

Two days special horticultural program, Jan. 20-21.

One week's special dairy course of demonstrations by state commissioner and dairy department of the College of Agriculture.

Special cotton day, Jan. 23, which will also be Salt River Valley day.

Full week of poultry lectures and demonstrations.

Special lectures and demonstrations in farm crops, soils, silos, irrigation, farm management and marketing.

Special bee and honey program, Saturday, Jan. 24.

Crop pest program with demonstrations.

Campus excursion and field trips.

Many federal and state specialists and experts on the program.

Many leading and successful Arizona farmers, stockmen and housewives will give others the benefit of their experiences.

Altogether it is the best week's program ever arranged for Farmers' and Housekeepers' Week and a large attendance from all parts of the state is expected.

## Only Hungry Stock Eat Poisonous Plants on Range.

Loco is the only poisonous plant which livestock will eat in preference to any other forage. An animal will eat no other poisonous plant unless forced to do so by hunger. A possible exception to this rule is the case in which the poison is fed in the hay.

Professor May, of the Colorado Agricultural College, has spent three summers making poisonous plant investigations for the state and federal government. The following is an abstract from one of his reports:

A brief review of the conditions under which poisoning usually occurs will serve to bear out the above statements. The most common conditions are as follows:

(1) On the driveway after stock have been driven for some distance, and empty stomach and hasty picking of forage will cause the eating of poisonous plants.

(2) On the early summer range where such plants as death camas and larkspur come up before the other forage starts, and stock must eat these or go hungry.

(3) In over-grazed pastures or on over-grazed portions of the range where palatable forage is first eaten off and the stock are finally forced to eat the only remaining plants, which are likely to be poisonous plants.

The moral from these observations is obvious. First, the stock owner should learn to recognize the poisonous plants on the areas grazed by his stock, and second, care should be taken to not allow hungry animals to graze on areas infested with the poisonous plants.

How Chickens Are Kept From Crossing.

While keeping two distinct breeds of poultry in one yard without mixing the breeds seems difficult, it can be accomplished easily and with satisfactory results. One of the kinds kept is a so-called egg breed, the other being a general-purpose variety of poultry. The method of preventing crossing is as follows:

One year, roosters of the egg-laying breed are retained and used for breeding, no other males being kept. The following year roosters of only the

(Continued on Page 11.)

## STATE OF ARIZONA OFFICE OF THE ARIZONA CORPORATION COMMISSION United States of America,

State of Arizona } ss.  
The Arizona Corporation Commission does hereby certify that the annexed is a true and complete transcript of a true and complete transcript of the

## ARTICLES OF INCORPORATION

OF  
FLAGSTAFF MILLING COMPANY  
which were filed in the office of said Arizona Corporation Commission on the 3rd day of December, A. D. 1919, at 10:00 o'clock a. m., as provided.

IN TESTIMONY WHEREOF, The Arizona Corporation Commission, by its chairman, has hereunto set its hand and affixed its Official Seal.

Done at the City of Phoenix, the Capital, this 3rd day of December, A. D. 1919.

## ARIZONA CORPORATION COMMISSION.

(Signed) AMOS A. BETTS,  
Chairman.

Attest—  
(Signed) A. E. STELZER,  
Secretary.

## ARTICLES OF INCORPORATION

OF  
FLAGSTAFF MILLING COMPANY  
KNOW ALL MEN BY THESE PRESENTS: That we, the undersigned, do hereby associate ourselves together for the purpose of forming a corporation under the laws of the State of Arizona, and for the furtherance of such purpose do hereby adopt the following Articles of Incorporation:

## ARTICLE I.

The names of the incorporators and their Post Office addresses are as follows:

J. C. Kester, Flagstaff, Coconino County, Arizona.

Fred J. Lusk, Flagstaff, Coconino County, Arizona.

The name of this corporation shall be

FLAGSTAFF MILLING COMPANY

and its principal place of business shall be in the Town of Flagstaff, County of Coconino, State of Arizona.

Branch offices may be established by the Board of Directors at any other place in the State of Arizona.

## ARTICLE II.

The purpose of this corporation and the principal nature of the business proposed to be transacted is:

1. To hold all real estate proper for the purpose for which it is incorporated.

2. To buy, handle, store and sell grain, flour, feed, and all of the other products that may be manufactured from grain of all kinds, and to manufacture and sell any and all of the products that may be manufactured from grain and other products, and any other materials necessary, useful or convenient in the carrying on of said milling and manufacturing business; to carry on a general merchandise business.

3. To buy, sell, trade and deal in at wholesale and retail, groceries, provisions, food, supplies, wares, vegetables, produce, hay, straw, potatoes, and all articles and things incidental to a general merchandise store.

4. To buy, sell, lease, trade and deal in and otherwise handle either as principal or agent, either for cash or terms or otherwise, automobiles, trucks, automobile accessories and supplies of all kinds, farming implements and hardware of all kinds.

5. To do all and everything necessary for the accomplishment of any of the purposes or the furtherance of any of the powers hereinbefore set forth, either as principal or agent.

## ARTICLE III.

That the total amount of the capital stock of this corporation shall be Twenty-five Thousand Dollars, (\$25,000.00), divided into shares of the par value of \$100.00 each. Such stock shall be issued under the direction of the Board of Directors, and shall be fully paid up at the time of delivery.

The Board of Directors may authorize and cause stock to be issued in exchange for real or personal property and the judgment of the Board of Directors as to the full value of such property shall, in the absence of fraud, be conclusive.

## ARTICLE IV.

That the time of the commencement of this corporation shall be the date of the issuance to it of a certificate of incorporation by the Arizona Corporation Commission and shall terminate twenty-five (25) years thereafter.

## ARTICLE V.

The prudential and business affairs of the corporation shall be conducted by a Board of Directors, consisting of two or more persons, who shall be elected at a meeting of the stockholders, held on the first Tuesday in the month of January of each year, beginning with January, 1920.

The officers of this corporation shall be a President and Secretary, and Treasurer, and the same person may be chosen to fill any two offices.

## ARTICLE VI.

The following named persons have been selected and shall constitute a Board of Directors until the first annual election, to-wit:

J. C. KESTER and FRED J. LUSK.

The officers of said corporation, who have been selected and shall serve until their successors have been elected and duly qualified, are as follows:

J. C. Kester, President.

Fred J. Lusk, Secretary and Treasurer.

The Board of Directors shall have the power to fill vacancies in its membership and in the offices of the corporation.

The Board of Directors may adopt a common seal, and may amend or repeal the same, and shall have the power and authority to transact any business within the power of the corporation, and to delegate such power and authority as it may deem expedient to any officer of the corporation.

## ARTICLE VII.

The highest amount of indebtedness or liability, direct or contingent, to which the corporation is to at any

## SHEEP TAX CASE IS HEARD THIS WEEK

Talk of the long arm of the law, well Mohave county needs that long arm to get there when it comes to the collection of some of its bills. This week Joseph H. Reber brought to Kingman James Smith, a sheepman, whose home is in Cedar City, Utah, to have a preliminary hearing on having refused to pay the occupation tax or license on about 8,000 head of sheep that were brought into the state from Utah. Mr. Reber is the deputy sheriff at Littlefield and upon him has devolved the collection from Smith, who refused to come across. He was arrested and brought to Littlefield from the Wolf Hole country in northern Arizona. It was expected that a justice of the peace would be found at Littlefield to take cognizance of the case, but he was absent and the prisoner voluntarily submitted to being taken through the state of Nevada to Kingman, where the cause was presented to Justice of the Peace J. H. Smith, and by agreement was set for hearing on the 29th of this month.

The distance traveled from the point of arrest to Kingman is close to 500 miles, the return trip being practically the same distance, although Mr. Smith would have to go about 95 miles further to reach his home. The men making up the party were Edmund H. Ryan, attorney for the Utah Sheep Growers association, of Cedar City, Utah; James Smith, of Cedar City, Utah; Jed Cox and Jos. W. Prince, of St. George, Utah, and Jos. H. Reber, of Littlefield, Arizona. Mr. Prince recently had to pay about \$1,500 in license tax, but did it most graciously. It is understood that the Utah Sheep Growers association purpose fighting the law, but even if they win they will lose, as the Arizona legislature will soon be in session and will correct any irregularities in the old act and bring them immediately under its purview, and it is possible that in view of the stand taken by the intruding stock growers the act may be made more drastic. On the other hand the governor has the right to declare a quarantine against not only Utah sheep, but also against Utah cattle, which would be a calamity to the stockmen, as Arizona is just now the haven for all, the ranges of Utah being entirely denuded of grass, while Arizona range is knee deep in luxuriant feed.

It is not retaliatory measures that Arizona wants, but a just and protective law for its resident stockgrowers. Men who have not the slightest interest in the welfare of the state should be made to pay something for the privilege of bringing their stock from barren ranges into good feed, and it is no more than right that some law should be enacted that would protect the men who have gone into a country and spent their good time and money in building up reservoirs to also have their ranges safeguarded from the ravages of hordes of hungry sheep. And again, the state and county needs the money.—Kingman Miner.

## TEACHER'S SYMPTOMS

"Jimmy," said the fond mother to her smart eleven-year-old, "what became of that little pie I made for you as a treat yesterday? Did you eat it?"

"No, mama," answered Jimmy, with a grin; "I gave it to my teacher at school instead."

"That was very nice and generous of you, Jimmy," complimented his mother. "And did your teacher eat it?"

"Yes; I think so," answered Jimmy. "She wasn't at school today."

## LO, HELL-O

Voice—"Lo, sweetie."

Exchange—Yes. Hell-o; husband's here."

Sun want ads. bring quick results.

time subject itself, is the sum of Sixteen Thousand Dollars (\$16,000.00).

## ARTICLE VIII.

The private property of the stockholders of this corporation shall be forever exempt from liability for its debts or obligations.

IN WITNESS WHEREOF, We have hereunto affixed our hands and seal this 29th day of November, A. D. 1919.

J. C. KESTER. (Seal.)  
FRED J. LUSK. (Seal.)

State of Arizona, } ss.  
County of Coconino }

This instrument was acknowledged before me by J. C. Kester and Fred J. Lusk, whose names are affixed to the same.

JOHN ZALAH, Notary Public.  
My commission expires August 20th, 1921.

Filed in the office of the Arizona Corporation Commission this 3rd day of December, A. D. 1919, at 10:00 a. m., at request of John Zalah, whose post office address is Flagstaff, Arizona.

## ARIZONA CORPORATION COMMISSION.

By AMOS BETTS,  
Chairman.

Recorded at request of Miss Stemmons, December 5th, A. D. 1919, at 2 o'clock p. m., in Book 2 Articles of Inc., pages 408 et seq. Records of Coconino County, Arizona.

(Signed) IRENE BART,  
County Recorder.

State of Arizona, } ss.  
County of Coconino }

I, IRENE BART, County Recorder in and for the County and State aforesaid, do hereby certify that the within instrument was filed for record at 2 o'clock p. m., on 5th day of December, A. D. 1919, and duly recorded in Book No. 2 of Articles of Incorporation, Records of Coconino County, Arizona, at pages 408 et seq.

WITNESS my hand and official seal the day and year first above written.

(Signed) IRENE BART,  
County Recorder.

12-12-41

## LYMAN DAM TO BE COMPLETED BY CONTRACT

Assistant State Treasurer George Ehard left Holbrook for St. Johns where he will take up matters connected with the Lyman Dam project. It is the opinion of state officials that the cost of this project up to date has been excessive and it is the intention to call for bids to complete the balance of the work by contract.

Practically fifty per cent of the work has been accomplished. When bids are opened for the remaining work it will be easily ascertainable as whether or not the present opinion of excessive cost for the completed portion of the project is well taken.—Holbrook News

Sun want ads. bring quick results.

## STATE OF ARIZONA OFFICE OF THE ARIZONA CORPORATION COMMISSION

United States of America, } ss.  
State of Arizona }

The Arizona Corporation Commission does hereby certify that the annexed is a true and complete transcript of the

## AMENDMENT TO ARTICLES OF INCORPORATION

OF  
PITTMAN VALLEY LAND & CATTLE COMPANY

which was filed in the office of said Arizona Corporation Commission on the 22nd day of April, A. D. 1919, at 2:00 o'clock p. m., as provided by law.

IN TESTIMONY WHEREOF, The Arizona Corporation Commission, by its chairman, has hereunto set its hand and affixed its Official Seal.

Done at the City of Phoenix, the Capital, this 23rd day of April, A. D. 1919.

## ARIZONA CORPORATION COMMISSION.

(Signed) AMOS A. BETTS,  
Chairman.

(Seal Arizona Corporation Commission, Phoenix)

Attest: (Signed) A. E. STELZER,  
Secretary.

## AMENDMENT TO ARTICLES OF INCORPORATION

OF  
PITTMAN VALLEY LAND & CATTLE COMPANY

FLAGSTAFF, ARIZONA

We hereby certify that at a meeting of the stockholders of the Pittman Valley Land & Cattle company, duly and regularly called and held at the office of the corporation in the town of Flagstaff, in the county of Coconino, state of Arizona, on the tenth day of April, A. D. 1919, at which all shares of the stock of the corporation were duly represented, either in person or by proxy, the following resolutions were presented, to-wit:

FIRST. "RESOLVED, that Article VI of the Articles of Incorporation of the Pittman Valley Land & Cattle Company be amended to read as follows:

## ARTICLE VI

"The amount of the capital stock of this corporation shall be Two Hundred Fifty Thousand Dollars, (\$250,000.00), divided into twenty-five hundred (2,500) shares of the par value of one hundred dollars (\$100.00) each. Such stock shall be issued under the direction of the Board of Directors, and shall be fully paid up at the time of delivery. The Board of Directors may authorize and cause stock to be issued in exchange for real or personal property, and the judgment of the Board of Directors as to the full value of such property, shall, in the absence of fraud, be conclusive."

SECOND. "RESOLVED that Article XI of the Articles of Incorporation of the Pittman Valley Land & Cattle company be amended to read as follows:

## ARTICLE XI

"The highest amount of indebtedness, or liability, direct or contingent, to which the corporation is at any time to subject itself, is the sum of One Hundred Sixty-six Thousand Dollars (\$166,000.00)."

Each of which said resolutions, upon motion, were unanimously adopted by all votes cast at the meeting.

IN WITNESS WHEREOF, we have hereunto set our hands, and caused to be affixed the seal of said corporation, this tenth day of April, A. D. 1919.

RUBY B. ZALAH,  
President

(Corporate Seal)  
Attest: JOHN ZALAH,  
Secretary.

Filed in the office of the Arizona Corporation Commission this 22nd day of April, A. D. 1919, at 2:00 p. m., at request of John Zalah, whose postoffice address is Flagstaff, Arizona.

## ARIZONA CORPORATION COMMISSION

By AMOS A. BETTS,  
Chairman.

Recorded at request of Miss Stemmons, May 1. A. D. 1919, at 2 o'clock p. m., in Book 2 Articles of Inc., pages 386 and 387, Records of Coconino County, Arizona.

WITNESS my hand and official seal the day and year first above written.

IRENE BART,  
County Recorder.

Recorded at request of Miss Stemmons, May 1. A. D. 1919, at 2 o'clock p. m., in Book 2 Articles of Inc., pages 386 and 387, Records of Coconino County, Arizona.

IRENE BART,  
County Recorder.

12-12-41

## New Brands Applied for December 13, 1919

Brand	Earmark	Location of Brand	Name of Applicant Post Office Address
JN	OO	H. right shoulder.	Julian Miranda, Laveen, Arizona.
4-Y	OO	C. left ribs. H. left shoulder.	Pay Stafford, Phoenix, Arizona.
7-T	OO	C. left ribs. H. left shoulder.	Mrs. Hattie Hopkins, Tucson, Arizona
2H	OO	C. right thigh.	G. P. Hatch, Mesa, Arizona.
74	OO	C. left ribs. H. left thigh.	H. Newberry, Kingsman, Arizona.
HB	OO	C. left hip.	Craig-Strand Land & Cattle Co., Phoenix.
3H	OO	C. right hip.	Elijah Houck, Florence, Arizona.
SG	OO	C. left ribs. H. left shoulder.	Jose Maria Castello, Kelvin, Arizona.
3A	OO	C. left ribs. H. left shoulder.	R. F. Wilson, Paradise, Arizona.
7	OO	C. left hip. H. left thigh.	Fred T. Moore, Flagstaff, Arizona.
R	OO	C. left and right hip and left ribs.	Robert Bowen, Mesa, Arizona.
ST	OO	C. left hip. H. left hip.	S. J. Trihalet, Phoenix, Arizona.
T	OO	C. left hip.	Craig-Stroud Land & Cattle Co., Phoenix.
7	OO	C. left hip. H. left shoulder.	Herbert Wood, Congress Jct., Ariz.
7	OO	C. left hip. H. left thigh.	Mawry & Gross, Kelvin, Arizona.
7	OO	Fire brand on nose of sheep.	B. D. Ortega, Concho, Arizona.
B	OO	Tar brand on hips of sheep.	B. D. Ortega, Concho, Arizona.
7	OO	Ewes.	B. D. Ortega, Concho, Arizona.
7	OO	Wethers.	B. D. Ortega, Concho, Arizona.
7	OO	Fire brand right nose.	T. F. Doyle, Litchton, Arizona.
7	OO	Tar brand on back.	T. F. Doyle, Litchton, Arizona.
7	OO	Ewes and wethers.	T. F. Doyle, Litchton, Arizona.
P	OO	Fire brand on nose.	Porter Bros., Phoenix, Arizona.
P	OO	Tar brand on hip.	Porter Bros., Phoenix, Arizona.
7	OO	Ewes.	Porter Bros., Phoenix, Arizona.
7	OO	Wethers	Porter Bros., Phoenix, Arizona.

## New Brands Applied for December 6, 1919

Brand	Earmark	Location of Brand	Name of Applicant; Post-Office Address
7L	OO	C. right hip. H. right thigh.	Doyle Lee, Safford, Ariz.
7	OO	C. left ribs. H. left shoulder.	Lucas Maria, SanDiego Tucson, Ariz.
XL	OO	C. left ribs. H. left thigh.	Crisolfo Ariza, Tucson, Ariz.
7	OO	C. left ribs. H. left thigh.	Mariana Cruz, Tucson, Ariz.
7	OO	C. left ribs.	Fagua & Lewis, Scottsdale, Ariz.
7	OO	H. right jaw.	T. L. Morris, Kirkland, Ariz.
7	OO	C. right ribs. H. left thigh.	Lloyd O. Hamilton, Alpine, Arizona.
7	OO	C. left ribs.	E. P. Paxton, Miami, Arizona.
XOX	OO	C. right ribs. H. right shoulder.	David H. Biles, Prescott, Arizona.
7	OO	C. left hip.	H. B. Hughes, Phoenix, Arizona.
7	OO	H. right jaw.	A. R. Sheets, Glendale, Arizona.
7	OO	C. right ribs. H. right thigh.	Eug